CLEARFIL LINER BOND 2V offers excellent versatility

All of the strength and convenience of CLEARFIL LINER BOND 2, plus greatly enhanced versatility - that's what CLEARFIL LINER BOND 2V provides. CLEARFIL LINER BOND 2V, the original self-etching dual-cure bonding agent, can be effectively used with:

- Light-cured composite restorations
- Chemical-cured composite restorations
- Hypersensitivity treatment
- Pretreatment cavity sealing for indirect restoration
- Bonded amalgam restorations
- Intraoral repair of fractured porcelain restorations using light-cured composite
- Cementing porcelain or composite inlays/onlays using resin cement
- Bonding to metal and porcelain when used with CLEARFIL PORCELAIN BOND ACTIVATOR and ALLOY PRIMER

With the improved bond strength to enamel and dentin, the self-etching function and the addition of dual-cure component, Kuraray Co., Ltd is proud to provide the answers to bonding solution - CLEARFIL LINER BOND 2V.
**Bond Strength**

Both Primer and Bond contain the proven adhesive monomer MDP (10-Methacyrloyloxydecyl dihydrogen phosphate), which is used in PANAVIA 21 and CLEARFIL LINER BOND 2, for high bond strength and durability. CLEARFIL LINER BOND 2V bonds strongly to enamel, dentin, metals and porcelains thanks to MDP.

**Tensile bond strength (MPa)**

![Tensile bond strength graph]

**Marginal Sealing**

CLEARFIL LINER BOND 2V offers improved sealing properties and protection from marginal microleakage. In the table below, the lower score indicates less leakage. Even under the severe test conditions shown here, CLEARFIL LINER BOND 2V shows excellent marginal sealing.

**Class V box cavity in human molar**

<table>
<thead>
<tr>
<th>Human Enamel</th>
<th>Human Dentin</th>
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<tbody>
<tr>
<td>CLEARFIL LINER BOND 2V</td>
<td>CLEARFIL LINER BOND 2V</td>
</tr>
<tr>
<td>Product A</td>
<td>Product A</td>
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<tr>
<td>Product B</td>
<td>Product B</td>
</tr>
<tr>
<td>Product C</td>
<td>Product C</td>
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</tbody>
</table>

After 125 thermal-cycles between 4°C and 60°C for 30 seconds each and 10,000 times repeated strokes of 12kgf load. (90 strokes per min.)


**Easy Handling**

CLEARFIL LINER BOND 2V is the original dual-cured, self-etching bonding agent. This means no rinsing, no double coating, no blotting are necessary.

**Basic procedure step**

- **Priming**
  - Mix Primer liquid A and B
  - Apply and leave for 30 seconds
  - Air dry

- **Apply Bond A**
  - Air dry
  - Light-cure for 20 seconds

- **Apply light-cured composite**
  - Light-cure
  - Treatment of hypersensitive surfaces/Exposed root surfaces
  - Apply PROTECT LINER F
  - Light-cure for 20 seconds

PROTECT LINER F is a fluoride releasing, low viscous composite resin which has wear resistance as high as that of MFR composite resin.
CLEARFIL LINER BOND 2V can be used as a chemical-cured, dual-cured, as well as a light-cured bonding system. In addition, by adding CLEARFIL PORCELAIN BOND ACTIVATOR, CLEARFIL LINER BOND 2V bonds to porcelain as well. Furthermore, ALLOY PRIMER enhances the bond strength to metals. The newly developed component, Bond B, promotes this special chemical curing function.

Direct restorations using light-cured composite

Cavity sealing as a pre-treatment for indirect restoration

Treatment of hypersensitive surfaces/Exposed root surfaces

Direct restorations using chemical-cured composite

Bonded amalgam restorations

Primer Liquid A & B

- Mix
- Apply
- Leave for 30 sec.
- Air dry

Bond Liquid A

- Apply
- Air dry
- Light-cure for 20 sec.

Apply light-cured composite

Apply PROTECT LINER F

Apply chemical-cured composite

Condense the amalgam mixture into the cavity

Porcelain surface treatment:

K-ETCHANT GEL

- Apply
- Leave for 5 sec.
- Rinse and dry

ALLOY PRIMER

- Apply and dry

*Use ALLOY PRIMER when precious metal is repaired

Primer Liquid A & B and CLEARFIL PORCELAIN BOND ACTIVATOR

- Mix
- Apply
- Leave for 5 sec.
- Air dry

Bond Liquid A

- Apply
- Air dry
- Light-cure for 20 sec.

Apply light-cured composite

CLEARFIL PHOTO OPAQUER

- Apply
- Light-cure

*Use CLEARFIL PHOTO OPAQUER when metal is exposed

(Intraoral) repairs of fractured porcelain facing crowns using light-cured composite

Cementing inlays and onlays made of porcelain or composite using composite resin cement

Porcelain surface treatment:

K-ETCHANT GEL

- Apply
- Leave for 5 sec.
- Rinse and dry

Primer Liquid A & B and CLEARFIL PORCELAIN BOND ACTIVATOR

- Mix
- Apply
- Leave for 5 sec.
- Air dry

Bond Liquid A & B

- Mix
- Apply
- Air dry

Cementing with CLEARFIL DC CEMENT

Tooth surface treatment:

Primer Liquid A & B

- Mix
- Apply
- Leave for 30 sec.
- Air dry

Bond Liquid A & B
**COMPONENTS**

**CLEARFIL LINER BOND 2V**

**Kit**
- CLEARFIL LINER BOND 2V Primer (6ml each)
- CLEARFIL LINER BOND 2V Bond (5ml)
- Disposable brush tips (50 pieces x 2)
- Brush tip handle
- Mixing dish
- Sponge pledget
- System tray
- Light shade

**Available Separately**
- Chemical-cure Component
- CLEARFIL LINER BOND 2V Bond Liquid B (2ml)

**Related Products**

- Silane Coupling Agent
  CLEARFIL PORCELAIN BOND ACTIVATOR (4ml)

- Metal Adhesive Primer
  ALLOY PRIMER (5ml)

- Light-cured Fluoride Releasing
  Low Viscosity Resin
  CLEARFIL LINER BOND 2 PROTECT LINER F (2ml)

**NOTE:**
Please read CLEARFIL LINER BOND 2V Instructions for Use thoroughly before using the product.
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